BRUHATH BENGALURU MAHANAGARA PALIKE.

Modified Estimate

NAME OF WORK: Construction of RCC Box drain Across SWD at WY-MAC Junction and SSM Wall along SWD in Front of Divya Engineering Works in Dasarahalli Zone.

Est cost: 6906476

SL NO	Description of work	Unit	NO	Dimensions L	B	D	Qty	Rate	Amount
1	Diversion of Water course by providing coffer dams or bunds or islands as may be necessary for pipes and abutments, foundations, bailing out or pumping water during exavation and until completion etc., complete 1.5m depth upto & including 3m depth as directed by the engineer-in-charge								
		Cum	1	25.0	1.5+3.0/2	1.5	84.38		
			1	9.0	1.5+3.0/2	1.5	30.38		
			1	6.0	1.5+3.0/2	1.5	20.25		
							135.00		
			Qty Executed upto 100 %				135.00	275.00	37125
2	KSSRB M2100-5.2 Earth work in Excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification No.304 V.Marshy soil. B. in Marshy soil upto 3m depth(By mechanical means)								
	For Culvert	Cum	1	15.3	7.5	3.0	343.13		
			1	5.5	8.5	3.0	140.25		
	For U-Shape drain		1	9.5	7.5	2.5	178.13		
			1	7.6	6.6	2.0	100.32		
	For Approch drain		2	2.5	1.5	1.5	11.25		
							773.07		
	Deduct for Hume pipes		11	2.4	3.14	0.1	8.29		
							764.78		
			Qty Executed upto 100 %				764.78	50.00	38239
3	KSRB 2.8 Providing and filling in foundation with granite/trap broken metal of 100 MM and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge								
	For Culvert		1	15.3	7.5	0.3+0.45/2	42.89		
			1	5.5	8.5	0.3+0.45/2	17.53		
	For U-Shape drain		1	9.5	7.5	0.3+0.45/2	26.72		

		Cum	1	7.6	6.6	0.3+0.45/2	18.81		
	For Approch drain		2	2.5	1.5	0.3+0.45/2	2.81		
							108.76		
			Qty Executed upto 100 %				108.76	1500.00	163140
4	KSRRB M2100-10 - Plain Cement Concrete M10 with OPC cement @ 220 kgs, with crushed 40mm and down size graded metal coarse aggregates @0.84 cum and fine aggregates @ 0.56cum, in foundation mechanically mixed placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No.2100and as directed by the Engineer in charge								
	For Culvert		1	15.3	7.5	0.20	22.88		
			1	5.5	8.5	0.20	9.35		
	For U-Shape drain		1	9.5	7.5	0.20	14.25		
			1	7.6	6.6	0.20	10.03		
	For Approch drain	Cum	2	2.5	1.5	0.15	1.13		
							57.63		
			Qty Executed upto 100 %				57.63	5200.00	299676
5	Reinforcement Cement Concrete in open foundation with OPC design mix M-35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregate at 0.68cum and fine aggregates at 0.45 cum with superplastisiser at 3lts confirming to 1S9103-1999 Reaffirmed 2008, with Batching plant, transit mixer and concrete pump, MORTH Specification No 1500,1700,& 2100, completed as per technical specifications and as per the direction of Engineer Incharge.								
	For Culvert Raft		1	15.25	7.2	0.45	49.410		
			1	5.5	8.2	0.45	20.295		
							69.71		
			Qty Executed upto 125 %				69.71	6000.00	418260
6	KSRRB M 2200-5.12 : Plain/reinforcement Cement Concrete in sub structure. with Design mix M35 with OPC cement @390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @0.45cum with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008 complete as per drawing and technical specifications. i)Height upto 5m as per the direction of Engineer incharge								
	For Culvert walls		1	27.00	0.45	2.3	27.95		
	Haunch		2	27.00	0.3/2	0.3	2.43		

		Cum	1	15.25	0.45	2.3	15.78		
	Haunch		2	15.25	0.3/2	0.3	1.37		
	Parapet walls		1	12.0	0.2	1.2	2.88		
			1	7.0	0.2	1.2	1.68		
							52.09		
			Qty Executed upto 125 %				52.09	7000.00	364630
7	KSRRB M2300-8.1 Furnishing and placing reinforced/ prestressed Cement Concrete in solid Slab Superstructure as per drawing and Technical Specification complete as per specification RCC / PSC with OPC cement design mix M-35 @390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68 cum and fine aggregates @ 0.45cum, with superplastisisers @3lts confirming to IS9103-1999 Reaffirmed-2008 with Batching Plant, Transite Mixer and Concrete Pump . MORTH specification No 1500, 1600 & 1700. height upto 5 mtrs								
	Deck slab of Culvert	Cum	1	20.75	6.9	0.45	64.43		
			1	6.5	1.0	0.45	2.93		
	Approch drain		2	3.0	1.5	0.15	1.35		
							68.70		
			Qty Executed upto 125 %				68.70	7000.00	480900
8	PCC M15 grade Levelling course below approach slab complete as per drawing and technical specifications completed as per specifications with all lead and lift								
	For Approch Road	Cum	1	13.5	13.0+11.0/2	0.2	32.40		
			1	4.0	16.0+21.0/2	0.2	14.80		
							47.20		
			Qty Executed upto 125 %				33.75	5500.00	185625
			Qty Executed Above 125 %				13.45	5001.78	67274
9	KSRRB M2700-7: Reinforced cement concrete M30 Approch slab including reinforcement and formwork complete as per drawing and technical specifications complete as per specifications, MORTH specifications No.1500, 1600, 1700, & 2704 and with all lead and lift.								
	For Approch Road	**Cum**	1	13.5	13.0+11.0/2	0.3	48.60		
			1	4.0	16.0+21.0/2	0.3	22.20		
							70.80		
			Qty Executed upto 125 %				67.50	10500.00	708750
			Qty Executed Above 125 %				3.30	11493.21	37928
10	KSRRB M2200-6 Supplying, fitting and placing TMT bar reinforcement in super-structure complete as per drawing and technical specifications TMT Bars Fe 415 as directed by the engineer-in-charge								

	For RCC Work	MT	As per premeasurements qty				34.90		
			Qty Executed upto 125 %				31.03	94000.00	2916820
			Qty Executed Above 125 %				3.87	78189.06	302592
									304937=00
11	KSRRB M2200.9: Proiding and laying of Filter media with Granular materials/stone crushed aggregates satisfying the requirement laid down in clause 2500.4.2.2 of MORTH specifications to a thickness of not less than 600 mm with smaller size towords the soil and bigger size towords the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawings and technical specifications complete as per specifications with all lead and lifts, etc,. after breaking of clods complete as per specifications MORTH specifications No 710.1.4 of IRC:78 & 2200 and with all lead and lift.								
	Behind Abutments	Cum	1	27.00	0.3	1.5	12.15		
			1	15.25	0.3	1.4	6.41		
							18.56		
			Qty Executed upto 125 %				18.56	1020.60	18942
12	Supplying of 110 mm outer dia 2.5 kg/sqcm pressure pipe of approved make (PVC) and with all lead and lift								
	For Abutments and Wing wall	Mtr	26		0.45		11.70		
			15		0.45		6.75		
							18.45		
			Qty Executed upto 125 %				18.45	175.00	3229
13	KSRRB M100-1: Collecting, Conveying and disposal of Surplus/ Excovated earth to designated dumping site (15.0 kms) with all lead and lift.								
	Qty same as vide I No (2)	Cum					764.78		
			Qty Executed upto 125 %				764.78	110.00	84126
	EIRL Items								
1	KSRRB M2100-17.2:Plain/Reinforcement Cement Concrete in design mix M-25 with OPC cement @ 340kgs with 20mm and down size graded granite metal coarse aggregate at 0.70cum and fine aggregates at 0.47 cum with superplastisiser at 3mts confirming to 1S9103-1999 Reaffirmed 2008 Open Foundation complete as per drawing and technical specificaton, Case II : with Batching plant, transit mixer and concrete pump, MORTH Specifications.No 1500,1700,& 2100 (P NO 212, I No 27.31 of KSRRB 2015-16.)								

	For U Shape drain Raft	Cum	1	9.5	7.5	0.30	21.38		
			1	7.6	6.0	0.30	13.680		
	For Approch drain		2	3.0	1.5	0.15	1.35		
							36.41	6731.59	245097
						Say	36.00		2423372
2	KSRRB M 2200-5.12 : Plain/reinforcement Cement Concrete in sub structure.Design mix M25 with OPC cement @340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @0.47cum with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008 complete as per drawing and technical specifications. i)Height upto 5m (P No 216, I No 28.7.12 of KPWD 2015-16)								
	U-Shape Drain Walls	Cum	1	18.5	0.45+0.3/2	3.00	20.81		
	haunch		1	18.5	0.3/2	0.30	0.83		
	wall		2	7.6	0.3	3.0	13.68		
	haunch		2	7.6	0.3/2	0.3	0.68		
	Approch drain		4	3.0	1.2	0.15	2.16		
							38.16	7558.04	288415
3	Supplying and fixing M.S Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in cc 1:2:4 with 2 Nos 16mm dia M S holdfast rods ,each of length 25cm, including cost of all materials cutting, bending scaffolding wherever neccessary, nicely finishing the welded joints with all lead and lift including providing two coats of approved quality paint over one coat of shop painting (Excluding cost of earth work and concrete) as per the direction of the Engineer in charge. (P No 255, I No 37.2 of PWD SR 2015-16)								
	For Parapet	Rmtr	12	2.6			31.2		
	For U shape drain		16	2.6			41.6		
			10	2.6			26.0		105722
							98.80	1070.86	105801
4	Providing and fixing M S Block of 38 mm dia of heavy gauge of 14 including removing the bends, cutting the pipe ,and fixing pipe in between the two vertical poles (MS Rectangular poles) and spot welding the Chain link with MS Block pipe including cost of all materials wastage in cutting and Scaffolding wherever neccessary with all lead and lift, including two coats of approved quality paint over one coat of shop paint etc,. complete as directed by the Engineer in charge (P NO 255, I NO 37.4 of KSSRB 2015-16.)								
	For Parapet		3	19.0			57.0		

	For U shape drain	Rmtr	3	24.0		72.0		
			6	7.6		45.6		
						174.60	364.85	63703
5	Providing Chain link fencing 50 mm size of 8 gauge properly stretched between existing rectangular poles and fixed with suitable bolts and nuts, the free end shall be welded to the poles and block pipe at the top and bottom as required including cost of allmaterals labour, lead and lifts and as per the direction of Engineer in charge of work including two coats of approved quality paint over one coat of paint. (P NO 255, I NO 37.3 of KSSRB 2015-16)							
	For Parapet	Sqm	1	19.0	2.0	38.0		
	For U shape dra		1	24.0	2.0	48.0		
			2	7.6	2.0	15.2		
						101.20	753.01	76205
	In Words: Rs. Sixty-nine Lakh, Four thousand,Five Hundred and Ten only. Mine						**Total**	6906470

6985783 =>
1385 =>
69,07,288 =>

(a)	Work order Amount (Awarded amount)	Rs.	69,07,288.20
(b)	Amount as per actual Execution (US+EIRL)	Rs.	69,06,476.00 6906304.08
(c)	Savings Net savings (a-b)	Rs.	812.00 784.12
			0

Assistant Engineer
SWD Dasrahalli Zone

Assistant Executive Engineer
SWD Dasrahalli Zone

Executive Engineer
3/c SWD Dasrahalli Zone

Modified Estimate

Technically sanctioned for Rs. 69,07,288 =>

Rupees Sixty nine lakhs Seven thousand two hundred eighty eight only

P-1237 Flood Management works

CE(SWD) 49/2015-16 23.12.15

AEE/E TA SE (S) CE